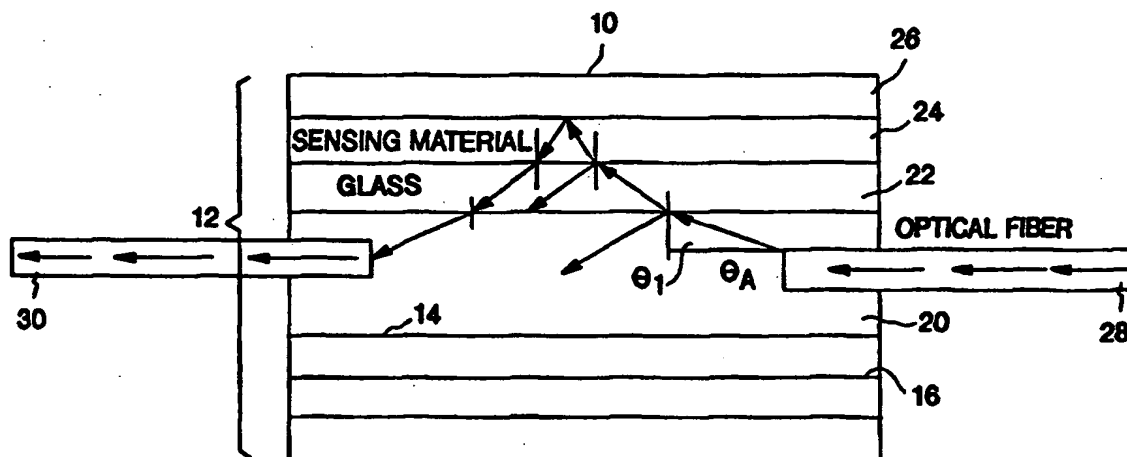




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<b>(21) International Application Number:</b> PCT/US00/01613 <b>(22) International Filing Date:</b> 25 January 2000 (25.01.00)  <b>(30) Priority Data:</b> 60/117,301      26 January 1999 (26.01.99)      US  <b>(71) Applicant (for all designated States except US):</b> THE BOARD OF GOVERNORS FOR HIGHER EDUCATION, STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS [US/US]; 199 Promenade Street, Providence, RI 02908 (US).  <b>(72) Inventor; and</b> <b>(75) Inventor/Applicant (for US only):</b> GREGORY, Otto, J. [US/US]; 87 West Wind Road, Wakefield, RI 02879 (US).  <b>(74) Agents:</b> STEVENS, Richard, L. et al.; Samuels, Gauthier & Stevens, Suite 3300, 225 Franklin Street, Boston, MA 02110 (US).		<b>(81) Designated States:</b> AU, CA, CN, JP, KR, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i>

**(54) Title:** ACTIVE STRAIN GAGES FOR EARTHQUAKE DAMAGE ASSESSMENT



**(57) Abstract**

The optical waveguide sensor (10) is comprised of a housing (12) having an exterior (16) and an interior surface (14). The exterior surface (16) is coated with at least two layers, the first layer comprised of a low index of reflection material (24) and the second layer comprised of a highly reflective material (26). The housing is in communication with first (28) and second (30) optical fibers.

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